

Amendments to the Claims:

Please amend the claims as follows:

Claim 1 (Currently amended): A fluid dispenser ~~(1)~~ for dispensing a metered volume of a fluid product ~~(2)~~ having:-

- (a) a storage chamber ~~(57)~~ for storing the fluid product in;
- (b) a dispensing outlet ~~(27)~~ through which the fluid product is dispensable from the dispenser;
- (c) a metering chamber ~~(73)~~ which is adapted to provide the metered volume of the fluid product for dispensing through the dispensing outlet by movement of the metering chamber between a contracted state ~~(Fig. 2A)~~ and an expanded state ~~(Fig. 2B)~~, movement of the metering chamber from the contracted state to the expanded state placing the metering and storage chambers in fluid communication to enable the metering chamber to receive from the storage chamber an excess volume of the fluid product comprising the metered volume and a surplus volume;
- (d) a bleed arrangement ~~(55a, 55b)~~ adapted to bleed the surplus volume of the fluid product from the metering chamber; and
- (e) an actuating mechanism ~~(40)~~ for actuating movement of the metering chamber between the expanded and contracted states;

wherein:-

- (f) the actuating mechanism has a manually-operable actuator member ~~(401)~~ mounted on the dispenser for movement in a predetermined direction with respect to the dispenser; and
- (g) the actuating mechanism is adapted to cause a cycle of movement of the metering chamber which takes in its expanded and contracted states in response to movement of the actuator member in the predetermined direction.

Claim 2 (Original): The dispenser of claim 1, wherein the metering chamber is defined by a boundary wall having a first section movably mounted in the dispenser to move the metering chamber between the expanded and contracted states.

Claim 3 (Original): The dispenser of claim 2, wherein the first section of the metering chamber boundary wall and the storage chamber are provided by a container unit which is movably mounted in the dispenser.

Claim 4 (Currently amended): The dispenser of claim 1, ~~[[2 or 3,]]~~ wherein a transfer port is provided in the boundary wall through which the metering and storage chambers are placed in fluid communication and the transfer port is selectively opened and closed when the metering chamber moves between its expanded and contracted states.

Claim 5 (Original): The dispenser of claim 4, wherein the transfer port is in the first section.

Claim 6 (Currently amended): The dispenser of claim 4 ~~[[or 5]]~~, wherein the transfer port is closed when the metering chamber is at an intermediate state between its expanded and contracted states.

Claim 7 (Original): The dispenser of claim 6, wherein the metering chamber has a volume corresponding to, or substantially corresponding to, the metered volume when at the intermediate state.

Claim 8 (Currently amended): The dispenser of claim 6 ~~[[or 7]]~~, wherein the transfer port is closed when the metering chamber moves between the intermediate and contracted states and open when the metering chamber moves between the intermediate and expanded states.

Claim 9 (Currently amended): The dispenser of claim 1 ~~any one of the preceding claims~~, wherein the boundary wall has a second section and the metering chamber is movable between its expanded and contracted states by movement of the first section in the dispenser relative to the second section.

Claim 10 (Original): The dispenser of claim 9, wherein the second section is stationary in the dispenser.

Claim 11 (Currently amended): The dispenser of claim 4 ~~any one of claims 4 to 8 and claim 9 or 10~~, wherein the boundary wall has a second section and the metering chamber is movable between its expanded and contracted states by movement of the first section in the dispenser relative to the second section, and wherein the second section is adapted in use to selectively open and close the transfer port.

Claim 12 (Currently amended): The dispenser of claim 1 ~~any one of the preceding claims~~, wherein an outlet port is provided in the metering chamber through which the metered volume of the fluid product is transferable from the metering chamber towards the dispensing outlet.

Claim 13 (Currently amended): The dispenser of claim 12 ~~when appended to claim 9 or 10~~, wherein the boundary wall has a second section and the metering chamber is movable between its expanded and contracted states by movement of the first section in the dispenser relative to the second section, and wherein the outlet port is provided in the second section of the metering chamber boundary wall.

Claim 14 (Currently amended): The dispenser of claim 3 ~~or any claim appended thereto~~, wherein the container unit is adapted in use to operate as a pump mechanism for filling and emptying of the metering chamber.

Claim 15 (Currently amended): The dispenser of claim 1 ~~any one of the preceding claims~~, wherein movement of the metering chamber from its contracted state to its expanded state causes a pressure difference between the metering and storage chambers which results in the excess volume of the fluid product being drawn into the metering chamber.

Claim 16 (Currently amended): The dispenser of claim 1 ~~any one of the preceding claims~~, wherein movement of the metering chamber from its expanded state to its contracted state pumps the metered volume of the fluid product out of the metering chamber.

Claim 17 (Currently amended): The dispenser of claim 1 ~~any one of the preceding claims~~ in which the metering chamber is repeatedly movable between its different states thereby enabling the dispenser to repeatedly dispense a metered volume of the fluid product.

Claim 18 (Currently amended): The dispenser of claim 1 ~~any one of the preceding claims~~ further having a valve mechanism which is adapted in use to keep the dispensing outlet closed until the bleed arrangement bleeds the surplus volume of the fluid product from the metering chamber.

Claim 19 (Original): The dispenser of claim 18 in which the valve mechanism is adapted to open the dispensing outlet as the metering chamber moves to its contracted state and to re-close the dispensing outlet when the contracted state is reached.

Claim 20 (Currently amended): The dispenser of claim 12, ~~claim 13 or any one of claims 14 to 17 when appended to claim 12~~ further having a valve mechanism at the outlet port which is adapted to only allow the metered volume of the fluid product to be transferred to the dispensing outlet.

Claim 21 (Original): The dispenser of claim 20, wherein the valve mechanism is configured to close the outlet port except when the metering chamber moves to its contracted state after the bleed arrangement bleeds the surplus volume of the fluid product therefrom.

Claim 22 (Currently amended): The dispenser of claim 18 ~~any one of claims 18 to 21~~ in which the valve mechanism is a non-return valve mechanism.

Claim 23 (Currently amended): The dispenser of claim 1 ~~any one of the preceding claims~~ in which the dispensing outlet is in a nozzle of the dispenser.

Claim 24 (Original): The dispenser of claim 23, wherein the nozzle is configured as a mouthpiece or a nasal nozzle.

Claim 25 (Currently amended): The dispenser of claim 1 ~~any one of the preceding claims~~ in which the bleed arrangement is adapted in use to bleed the surplus volume of the fluid product in the metering chamber to the storage chamber.

Claim 26 (Currently amended): The dispenser of claim 25 ~~when appended to claim 4,~~  
wherein a transfer port is provided in the boundary wall through which the metering and storage chambers are placed in fluid communication and the transfer port is selectively opened and closed when the metering chamber moves between its expanded and contracted states, and wherein the bleed arrangement is adapted in use to bleed the surplus volume of the fluid product to the storage chamber through the transfer port.

Claims 27 – 37 (Canceled)

Claim 38 (Currently amended): The dispenser of claim 3 ~~or any claim appended thereto~~ in which the container unit is mounted for translational movement in the dispenser.

Claim 39 (Currently amended): The dispenser of claim 1 ~~any one of the preceding claims~~ having an axis along which the metering chamber moves to change its state.

Claim 40 (Currently amended): The dispenser of claim 38 ~~claims 38 and 39,~~ having an axis along which the metering chamber moves to change its state wherein the container unit translates along the axis.

Claim 41 (Currently amended): The dispenser of claim 39 ~~[[or 40]]~~ in which the storage and metering chambers are located on the axis.

Claim 42 (Currently amended): The dispenser of claim 39 ~~any one of claims 39 to 41 when appended to claim 12,~~ wherein an outlet port is provided in the metering chamber through which the metered volume of the fluid product is transferable from the metering chamber towards the dispensing outlet, and wherein the outlet port is located on the axis.

Claim 43 (Currently amended): The dispenser of claim 39 ~~any one of claims 39 to 42~~ in which the dispensing outlet is located on the axis.

Claim 44 (Currently amended): The dispenser of claim 42 ~~[[and 43]]~~ in which the dispensing outlet is located on the axis, and in which the outlet port and the dispensing outlet are at opposed ends of an axial channel of the dispenser.

Claim 45 (Currently amended): The dispenser of claim 23 ~~or any claim appended thereto~~ in which the storage chamber, metering chamber and nozzle are configured in-line.

Claim 46 (Currently amended): The dispenser of claim 12 ~~or any claim appended thereto~~ in which the storage chamber, metering chamber and outlet port are configured in-line.

Claim 47 (Currently amended): The dispenser of claim 9 ~~or any claim appended thereto,~~ wherein the first section of the metering chamber boundary wall is mounted for sliding movement on the second section of the metering chamber boundary wall.

Claim 48 (Original): The dispenser of claim 47, wherein the first section of the metering chamber boundary wall is sealingly slidably mounted on the second section of the metering chamber boundary wall.

Claim 49 (Currently amended): The dispenser of claim 39 ~~any one of claims 39 to 44 and claim 47 or claim 48~~, wherein the first section of the metering chamber boundary wall is mounted for sliding movement on the second section of the metering chamber boundary wall, and wherein the first section of the metering chamber boundary wall presents at least a portion of an axially-oriented side of the metering chamber.

Claim 50 (Currently amended): The dispenser of claim 49 ~~when appended to claim 4~~, wherein a transfer port is provided in the boundary wall through which the metering and storage chambers are placed in fluid communication and the transfer port is selectively opened and closed when the metering chamber moves between its expanded and contracted states, and wherein the transfer port is provided in the axially-oriented side of the metering chamber.

Claim 51 (Currently amended): The dispenser of claim 2 ~~or any claim appended thereto~~, wherein the first section of the metering chamber boundary wall presents a movable end wall of the metering chamber.

Claim 52 (Currently amended): The dispenser of claim 2 ~~or any claim appended thereto~~ in which the first section of the metering chamber boundary wall has a generally U-shape.

Claim 53 (Currently amended): The dispenser of claim 49 ~~claims 49, 51 and 52~~, wherein the first section of the metering chamber boundary wall presents a movable end wall of the metering chamber in which the first section of the metering chamber boundary wall has a generally U-shape, and wherein the end wall of the metering chamber is presented by the base of the U-shape and the side of the metering chamber is presented by the limbs of the U-shape.

Claim 54 (Currently amended): The dispenser of claim 49, ~~50 or 53 when appended to claim 9, wherein the boundary wall has a second section and the metering chamber is movable between its expanded and contracted states by movement of the first section in the dispenser relative to the second section, and wherein the second section of the metering chamber boundary wall is presented by a structure having an axially-oriented surface on which the side of the metering chamber is slidably mounted.~~

Claim 55 (Currently amended): The dispenser of claim 54, wherein the axially-oriented surface of the structure is an outer surface.

Claim 56 (Currently amended): The dispenser of claim 9 ~~or any claim appended thereto~~, wherein the second section of the metering chamber boundary wall presents an end wall of the metering chamber.

Claim 57 (Currently amended): The dispenser of claim 9 ~~or any claim appended thereto~~, wherein the second section of the metering chamber boundary wall is presented by a generally U-shape structure.

Claim 58 (Currently amended): The dispenser of claim 54 ~~or 55 and claims 56 and 57 wherein the second section of the metering chamber boundary wall presents an end wall of the metering chamber, and wherein the second section of the metering chamber boundary wall is presented by a generally U-shape structure in which the base of the U-shape structure presents the end wall of the metering chamber and the limbs of the U-shape structure present the axially-oriented surface.~~

Claim 59 (Currently amended): The dispenser of claim 3 ~~or any claim appended thereto~~ in which the first section of the metering chamber boundary wall is formed by a female depression in an outer surface of the container unit.



Claim 60 (Currently amended): The dispenser of claim 59 ~~when appended to claim 9~~  
wherein the boundary wall has a second section and the metering chamber is movable  
between its expanded and contracted states by movement of the first section in the  
dispenser relative to the second section in which the second section of the metering  
chamber boundary wall is formed as a male projection which is inserted into the  
female depression.

Claim 61 (Currently amended): The dispenser of claim 59 ~~[[or 60]]~~ in which the  
depression extends into the storage chamber.

Claim 62 (Original): The dispenser of claim 61 in which the storage chamber  
surrounds the depression.

Claim 63 (Currently amended): The dispenser of claim 1 ~~any one of the preceding~~  
~~claims~~ in which at least a portion of the storage chamber surrounds the metering  
chamber.

Claim 64 (Original): The dispenser of claim 63 in which the at least a portion of the  
storage chamber is concentrically arranged with the metering chamber.

Claim 65 (Currently amended): The dispenser of claim 1 ~~any one of the preceding~~  
~~claims~~ in which the metering chamber has zero volume, or substantially zero volume,  
when in its contracted state.

Claim 66 (Currently amended): The dispenser of claim 65 ~~when appended to claim 6,~~  
wherein the boundary wall has a second section and the metering chamber is movable  
between its expanded and contracted states by movement of the first section in the  
dispenser relative to the second section, and wherein the first and second sections of  
the metering chamber boundary wall abut in the contracted state.

Claim 67 (Currently amended): The dispenser of claim 66, wherein the first and second sections of the metering chamber boundary wall are of complementary shape.

Claim 68 (Currently amended): The dispenser of claim 66 ~~[[or 67]]~~ in which the first and second sections nest in the contracted state.

Claim 69 (Currently amended): The dispenser of claim 13 ~~or any claim appended thereto~~ in which the first section of the metering chamber boundary wall closes off the outlet port in the contracted state of the metering chamber.

Claim 70 (Currently amended): The dispenser of claim 1 ~~any one of the preceding claims~~ which is hand-held.

Claim 71 (Currently amended): The dispenser of claim 3 ~~or any claim appended thereto~~ in which the actuator member is operatively coupled to the container unit to move the container unit such that the metering chamber completes the cycle between its different states.

Claim 72 (Currently amended): The dispenser of claim 1 ~~any one of the preceding claims~~ in which the predetermined direction is inward with respect to the dispenser.

Claim 73 (Original): The dispenser of claim 72 in which the actuator member is biased in an outward direction.

Claim 74 (Currently amended): The dispenser of claim 1 ~~any one of the preceding claims~~ in which the actuator member is a trigger member.

Claim 75 (Currently amended): The dispenser of claim 1 ~~any one of the preceding claims~~ in which the actuator member is pivotally mounted on the dispenser.

Claim 76 (Currently amended): The dispenser of claim 1 ~~any one of the preceding claims~~ in which the dispensing outlet is located at an upper end of the dispenser and the actuator member is mounted on a side of the dispenser.

Claim 77 (Currently amended): The dispenser of claim 75 ~~claims 75 and 76~~, in which the dispensing outlet is located at an upper end of the dispenser and the actuator member is mounted on a side of the dispenser wherein the actuator member has a pivot point at a lower end thereof.

Claim 78 (Canceled)

Claim 79 (Currently amended): The dispenser of claim 78 ~~when appended to claim 3~~, wherein the first section of the metering chamber boundary wall and the storage chamber are provided by a container unit which is movably mounted in the dispenser, and wherein in the rest condition the container unit is disposed in a rest position in the dispenser and the actuating mechanism is adapted to move the container unit through a cycle which commences, and ends, at the rest position and passes through a priming position, in which the metering chamber is in its expanded state, upon actuation of the actuating mechanism.

Claim 80 (Original): The dispenser of claim 79 in which the actuating mechanism biases the container unit to the rest position.

Claim 81 – 84 (Canceled)

Claim 85 (Currently amended): The dispenser of claim 1 ~~any one of the preceding claims~~ in which the bleed arrangement is adapted such that the surplus volume of the fluid product is caused to bleed from the metering chamber by movement of the metering chamber from the expanded state towards the contracted state

Claim 86 (Currently amended): The dispenser of claim 3 ~~or any claim appended thereto~~, wherein the actuating mechanism has a drive structure which is adapted in use to drivably move the container unit in a first direction responsive to movement of the actuator member in the predetermined direction thereby moving the metering chamber towards one of its different states.

Claim 87 (Original): The dispenser of claim 86, wherein movement of the container unit in the first direction causes the metering chamber to move from its contracted state to its expanded state.

Claim 88 (Currently amended): The dispenser of claim 86 ~~[[or 87]]~~ in which the first direction is generally transverse to the predetermined direction.

Claim 89 (Currently amended): The dispenser of claim 86~~[[, 87 or 88]]~~ in which the drive structure is coupled to the actuator member so as to be moved thereby.

Claim 90 (Original): The dispenser of claim 89 in which the drive structure is pivotally coupled to the actuator member.

Claim 91 (Currently amended): The dispenser of claim 86 ~~any one of claims 86 to 90~~, wherein the drive structure is a pusher structure for pushing the container unit in the first direction.

Claim 92 (Currently amended): The dispenser of claim 86 ~~any one of claims 86 to 91~~, wherein the drive structure is a cam structure for camming the container unit in the first direction.

Claim 93 (Currently amended): The dispenser of claim 1 ~~any one of the preceding claims~~, wherein the actuating mechanism is adapted in use to move the metering chamber from its contracted state to its expanded state in a first phase of movement of the actuator member in the predetermined direction and wherein the metering

chamber returns to its contracted state in a second phase of movement of the actuator member in the predetermined direction which follows the first phase.

Claim 94 (Original): The dispenser of claim 93, wherein the actuating mechanism has a biasing structure which biases the metering chamber to its contracted state, wherein in the first phase the metering chamber expands against the biasing force of the biasing structure and further wherein in the second phase the biasing force is allowed to bias the metering chamber back to the contracted state.

Claim 95 (Original): The dispenser of claim 94, wherein the fluid is a liquid and the biasing force of the biasing structure is sufficient to cause the metered volume of the liquid to be dispensed from the dispensing outlet as an atomised spray by the movement of the metering chamber back to its contracted state in the second phase of movement of the actuator member in the predetermined direction.

Claim 96 (Currently amended): The dispenser of claim 94 ~~[[or 95]]~~ when appended to claim 3, wherein the biasing structure acts on the container unit.

Claim 97 (Currently amended): ~~The dispenser of claim 94 or 95 when appended to any one of claims 86 to 93, wherein the actuating mechanism has a drive structure which is adapted in use to drivably move the container unit in a first direction responsive to movement of the actuator member in the predetermined direction thereby moving the metering chamber towards one of its different states, and wherein the drive structure disengages from the container unit in the second phase to enable the biasing structure to return the metering chamber to its contracted state.~~

Claims 98 - 103 (Canceled)

Claim 104 (Currently amended): A dispenser unit having a dispenser according to claim 1 ~~any one of the preceding claims~~ in which the dispensing outlet is a dispensing

Application No. PCT/GB2005/000407  
Attorney Docket No. PB60733-E USw

outlet of the unit through which the metered volume of the fluid product is, in use,  
dispensed to the external environment.

Claims 105 – 110 (Canceled)